

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for displaying positions of home network appliances, comprising:

receiving an appliance characteristics data stream from the home network appliances connected to a home network;

reading an appliance type identifier for indicating a type of each home network appliance connected to the home network and an appliance inherent identifier of the home network appliance, from the received appliance characteristics data stream;

generating an appliance identifier by linking the read appliance type identifier with the read appliance inherent identifier;

setting a position pointer for indicating a position of each home network appliance;

reading a text object corresponding to the position pointer from a text library, wherein the text library comprises the text object for indicating positions of the home network appliances;

combining a graphic object corresponding to the appliance identifier with the text object for indicating positions of the home network appliances; and

displaying the combined graphic object and text object on a screen,

wherein the text object is displayed on a certain portion of the graphic object corresponding to the appliance identifier, and a text size of the appliance identifier is adjustable,

wherein the appliance type identifier is a friendly name and the appliance inherent identifier is a Universal Domain Number (UDN), and

wherein the friendly name and the UDN are linked together to identify different appliances.

2. (Original) The method of claim 1, wherein the appliance identifier indicates a model name and a serial number of the home network appliance.

3. (Previously Presented) The method of claim 1, wherein the appliance inherent identifier indicates a serial number of the home network appliance.

4. (Original) The method of claim 1, wherein the position pointer indicates positions of the different types and the same type of home network appliances.

5. (Canceled).

6. (Previously Presented) The method of claim 1, wherein the displaying step displays the combined graphic and text object on the screen in order to make a user easily recognize a home network appliance to control.

7. (Currently Amended) An apparatus for displaying positions of home network appliances, comprising:

an appliance identifier generating unit for receiving an appliance characteristics data stream from the home network appliances connected to a home network, reading an appliance type identifier for indicating a type of each home network appliance connected to the home network and an appliance inherent identifier of the home network appliance, from the received appliance characteristics data stream, and generating an appliance identifier by linking the read appliance type identifier with the read appliance inherent identifier, wherein a text size of the appliance identifier is adjustable;

a position matching unit for setting a position pointer for indicating a position of the home network appliance and matching the set position pointer with the appliance identifier of the home network appliance corresponding to the position pointer; and

a display unit for reading a text object corresponding to the position pointer matched with the appliance identifier, for generating a graphic object corresponding to the appliance identifier matched with the position pointer, for generating a position display object by combining the text object with the graphic object, and for displaying the position display object,

wherein the display unit displays the text object on a certain portion of the graphic object corresponding to the appliance identifier,

wherein the appliance type identifier is a friendly name and the appliance inherent identifier is a Universal Domain Number (UDN), and

wherein the friendly name and the UDN are linked together to identify different appliances.

8. (Original) The apparatus of claim 7, wherein the appliance identifier indicates a model name and a serial number of the home network appliance.

9. (Previously Presented) The apparatus of claim 7, wherein the appliance inherent identifier indicates a serial number of the home network appliance.

10. (Original) The apparatus of claim 7, wherein the position pointer indicates positions of the different types and the same type of home network appliances.

11. (Canceled).

12. (Previously Presented) The apparatus of claim 7, wherein the display unit displays the position display object on the screen in order to make a user accurately recognize a home network appliance to control.

13. (Cancelled).

14. (Presently Presented) The apparatus of claim 7, wherein the appliance identifier generating unit includes:

a network interface module for receiving the appliance characteristics data stream from the home network appliances;

a stream processing module for reading the appliance type identifier and the appliance inherent identifier from the received appliance characteristics data stream and generating the appliance identifier by linking the read appliance type identifier with the appliance inherent identifier;

a text library for storing the appliance identifier generated in the stream processing module; and

a text processing module for adjusting the text size of the appliance identifier stored in the text library according to the preset font file.

15. (Previously Presented) The apparatus of claim 14, wherein the stream processing module includes:

a preprocessor for parsing the appliance characteristics data stream received from the network interface module;

a buffer for storing the appliance characteristics data stream parsed in the preprocessor;

a buffer manager for storing the appliance characteristics data stream parsed in the preprocessor in the buffer and outputting a register signal corresponded to the temporarily stored appliance characteristics data stream; and

a generator for reading the appliance type identifier and the product inherent identifier from the appliance characteristics data stream stored in the buffer according to the register signal outputted from the buffer manager and generating the appliance identifier by linking the read appliance type identifier to the product inherent identifier.

16. (Previously Presented) The apparatus of claim 15, wherein the position matching unit includes:

a position matching table set so as to record the appliance identifier according to a position pointer;

an indicating module for indicating the appliance identifier adjusted in the text processing module and the position pointer set in the position matching table;

a position matching module for matching the appliance identifier indicated by the indicating module to a pertinent position pointer according to a user operational key signal; and

a matching table managing module for distinguishing the home network appliances by recording the appliance identifier on the position matching table by the position pointer according to the information matched in the position matching module.

17. (Previously Presented) The apparatus of claim 7, wherein the displaying unit includes:

a position matching table set so as to match-record the appliance identifier according to the set position pointer;

a text library for storing the text object corresponded to the position pointer recorded in the position matching table;

a graphic library for storing a graphic object corresponded to the appliance identifier;

a matching table managing module for reading the appliance identifier matched to the pertinent position pointer by searching the position matching table according to a display request signal generated by the user;

a library managing module for reading the graphic object for indicating the appliance identifier read in the matching table managing module from the graphic library and the text object matched to the appliance identifier from the text library;

a storing module for storing the text object and the graphic object read by the library managing module;

a position indication object generating module for generating a position indicating object by combining the text object with the graphic object stored in the storing module; and

a graphic display module for displaying the position indication object generated in the position indication object generating module on the screen through graphic-processing.

18. (Currently Amended) A method for displaying positions of home network appliances, comprising:

generating a graphic object corresponding to an appliance identifier for indicating a home network appliance connected to a home network;

generating a text object corresponding a position pointer for indicating a position of the home network appliance; and

displaying the graphic object corresponding to the appliance identifier with the text object corresponding the position pointer,

wherein the text object corresponding to the position pointer is displayed on a certain portion of the graphic object corresponding to the appliance identifier, and a text size of the appliance identifier is adjustable,

wherein the appliance type identifier is a friendly name and the appliance inherent identifier is a Universal Domain Number (UDN), and

wherein the friendly name and the UDN are linked together to identify different appliances.

19. (Currently Amended) An apparatus for displaying positions of home network appliances, comprising:

an appliance identifier generator configured to generate a graphic object corresponding to an appliance identifier for indicating a home network appliance connected to a home network, wherein a text size of the appliance identifier is adjustable; and

a display unit configured to generate a text object corresponding a position pointer for indicating a position of the home network appliance and display the graphic object corresponding to the appliance identifier with the text object corresponding the position pointer, wherein the display unit displays the text object corresponding to the position pointer on a certain portion of the graphic object corresponding to the appliance identifier,

wherein the appliance type identifier is a friendly name and the appliance inherent identifier is a Universal Domain Number (UDN), and

wherein the friendly name and the UDN are linked together to identify different appliances.

20. (Currently Amended) A method for displaying positions of home network appliances, comprising:

generating a graphic object corresponding to an appliance identifier for indicating a home network appliance connected to a home network;

generating a text object corresponding a position pointer for indicating a position of the home network appliance; and

displaying the graphic object corresponding to the appliance identifier with the text object corresponding the position pointer, wherein a text size of the appliance identifier is adjustable,

wherein the appliance type identifier is a friendly name and the appliance inherent identifier is a Universal Domain Number (UDN), and

wherein the friendly name and the UDN are linked together to identify different appliances.

21. (Currently Amended) An apparatus for displaying positions of home network appliances, comprising:

an appliance identifier generator configured to generate a graphic object corresponding to an appliance identifier for indicating a home network appliance connected to a home network; and

a display unit configured to generate a text object corresponding a position pointer for indicating a position of the home network appliance and display the graphic object corresponding to the appliance identifier with the text object corresponding the position pointer, wherein a text size of the appliance identifier is adjustable,

wherein the appliance type identifier is a friendly name and the appliance inherent identifier is a Universal Domain Number (UDN), and

wherein the friendly name and the UDN are linked together to identify different appliances.

22. (New) The method of claim 1, wherein the linked friendly name and the UDN are stored in a position matching table in which the position matching table includes rooms of the home including the home network appliances linked to a position pointer as a top level node and all of the different appliances identified by the linked friendly name and the UDN in lower level nodes for each room such that it can be known if one home appliance of the same linked friendly name and the UDN is located in multiple rooms.

23. (New) The apparatus of claim 7, wherein the linked friendly name and the UDN are stored in a position matching table in which the position matching table includes rooms of the home including the home network appliances linked to a position pointer as a top level node and all of the different appliances identified by the linked friendly name and the UDN in lower level nodes for each room such that it can be known if one home appliance of the same linked friendly name and the UDN is located in multiple rooms.

24. (New) The method of claim 18, wherein the linked friendly name and the UDN are stored in a position matching table in which the position matching table includes rooms of the home including the home network appliances linked to a position pointer as a top level node and all of the different appliances identified by the linked friendly name and the UDN in lower level nodes for each room such that it can be known if one home appliance of the same linked friendly name and the UDN is located in multiple rooms.

25. (New) The apparatus of claim 19, wherein the linked friendly name and the UDN are stored in a position matching table in which the position matching table includes rooms of the home including the home network appliances linked to a position pointer as a top level node and all of the different appliances identified by the linked friendly name and the UDN in lower level nodes for each room such that it can be known if one home appliance of the same linked friendly name and the UDN is located in multiple rooms.

26. (New) The method of claim 20, wherein the linked friendly name and the UDN are stored in a position matching table in which the position matching table includes rooms of the home including the home network appliances linked to a position pointer as a top level node and all of the different appliances identified by the linked friendly name and the UDN in lower level nodes for each room such that it can be known if one home appliance of the same linked friendly name and the UDN is located in multiple rooms.

27. (New) The apparatus of claim 21, wherein the linked friendly name and the UDN are stored in a position matching table in which the position matching table includes rooms of the home including the home network appliances linked to a position pointer as a top level node and all of the different appliances identified by the linked friendly name and the UDN in lower level nodes for each room such that it can be known if one home appliance of the same linked friendly name and the UDN is located in multiple rooms.